TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION Effective December 1, 2011
WIN-1497

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **May 2015**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

Series 15 Vinyl Double Hung Windows, Replacement Windows, One Wide, Non-Impact Resistant, distributed by

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will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

The Series 15 double hung windows specified in this evaluation report are vinyl double hung replacement windows. This evaluation report includes one wide double hung window units. This report includes non-impact resistant vinyl double hung windows based on the following tested configurations:

General Description:

System	Description	Label Rating
1	Series 15; One Wide Vinyl Double Hung Windows; Replacement Windows; (X/X)	H-R35 40 x 63
2	Series 15; One Wide Vinyl Double Hung Windows; Replacement Windows; (X/X)	H-R25 48 x 72

Product Dimensions:

System	Overall Size	Interior Sash Size	Exterior Sash Size
1	40" x 63"	$36\frac{9}{16}$" x $30\frac{7}{8}$"	$35\frac{9}{16}$" x $29\frac{7}{8}$"
2	48" x 72"	$44\frac{9}{16}$" x $35\frac{3}{8}$"	$43\frac{9}{16}$" x $34\frac{3}{8}$"

Glazing Description:

System	Glass Construction [1]	Glazing Method [2]
1	IG-1	GM-1
2	IG-1	GM-1

Note: [1] See the "Glass Description Key" for the glazing construction.
[2] See the "Glazing Method Key" for the glazing method description.

Glazing Description Key:

IG-1: Both sashes contain sealed insulating glass units. The insulating glass units are comprised of two single strength ($\frac{3}{32}$") annealed glass lites separated by an Intercept spacer system. The glass thickness and type used in the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

Glazing Method Key:

GM-1: The insulating glass units are exterior glazed against dual adhesive foam glazing tape. The insulating glass units are secured with snap-in vinyl glazing beads.

Frame Construction: The frame members are manufactured from extruded vinyl (PVC). The frame corners are mitered and welded construction.

Sash Construction: The sash members are manufactured from extruded vinyl (PVC). The sash corners are mitered and welded construction.

Reinforcement (System 2): Aluminum reinforcement is utilized in the top sash at the top rail and the meeting rail and in the bottom sash at the meeting rail and the bottom rail. The reinforcement extends the full length of the members.

Hardware:

- Plastic tilt latches; Four (4) required; Located at each end of the top sash top rail and bottom sash interior meeting rail.
- Metal pivot bars with two (2) screws per bar; Four (4) required; Located at each end of the bottom rail and the top sash meeting rail.
- Metal cam lock with composite keeper (System 1); One (1) required; Located at the center of the meeting rail.
- Metal cam lock with composite keeper (System 2); One (1) required; Located 11 $\frac{3}{4}$ inches from each end of the meeting rail.
- Constant force balance system; Four (4) required; Two per side jamb.
- Plastic travel limit; Two (2) optional; Located 3 $\frac{1}{2}$ inches up from the check rail on the top sash stiles.

Product Identification: A certification program label (WDMA) will be affixed to the window. The certification program label includes the distributor's name; the name of the product: **15 Replacement Double Hung Annealed One Wide**; performance characteristics; the approved inspection agency (WDMA); and the following applicable standards: ANSI/AAMA/NWWDA 101/I.S.2-97 and AAMA/WDMA/CSA 101/I.S.2/A440-05.

LIMITATIONS

Design pressures:

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressures (psf)
1	40	63	± 35
2	48	72	± 25

Impact Resistance: These window assemblies do not satisfy the Texas Department of Insurance's criteria for protection from windborne debris. These window assemblies will need to be protected with an impact protective system when installed in areas where windborne debris is required.

Acceptance of Smaller Assemblies: Windows assemblies with dimensions equal to or smaller than those specified above are acceptable within the limitations specified in this report.

INSTALLATION INSTRUCTIONS

General: The window assembly shall be installed in accordance with the manufacturer's installation instructions. Detailed installation instructions and drawings are available from the distributor. One of the following two installation options shall be used:

Installation:

System 1: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The windows shall be secured to the wood wall framing members using the side jambs of the window with minimum No. 8 screws installed through the side jambs. Along each side jamb, the fasteners are spaced 5 inches, 36 inches, and 57 ½ inches down from the head. The fasteners shall be long enough to penetrate a minimum of 1 ½" into the wall framing members.

System 2: The wood wall framing members shall be minimum Spruce-Pine-Fir dimension lumber. The windows shall be secured to the wood wall framing members using the side jambs of the window with minimum No. 8 screws installed through the side jambs. Along each side jamb, the fasteners are spaced 5 inches, 40 inches, and 66 ½ inches down from the head. The fasteners shall be long enough to penetrate a minimum of 1 ½" into the wall framing members.

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.